

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
Operator CopyFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMN123530
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 575-748-6945		8. Well Name and No. BASEBALL CAP FEDERAL COM 701H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T24S R34E SESE 430FSL 1110FEL 32.182232 N Lat, 103.418777 W Lon		9. API Well No. 30-025-45793-00-X1
		10. Field and Pool or Exploratory Area WILDCAT;WOLFCAMP
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating LLC, respectfully requests approval for the following changes to the original APD.

BHL Change

From: 200' FNL & 760' FEL Section 24. T24S. R34E
To: 200' FNL & 990' FEL Section 24. T24S. R34E.C102 attached.
AC attached.
Directional plan attached.*All previous conditions of Approval still apply. DR*

14. I hereby certify that the foregoing is true and correct. Electronic Submission #476644 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 08/05/2019 (19PP2756SE)	
Name (Printed/Typed) MAYTE REYES	Title SENIOR REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/05/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>DYLAN ROSSMANGO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/09/2019</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED *****Handwritten signature/initials*

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

BASEBALL CAP FED COM #701H

OWB

PLAN #2

Anticollision Report

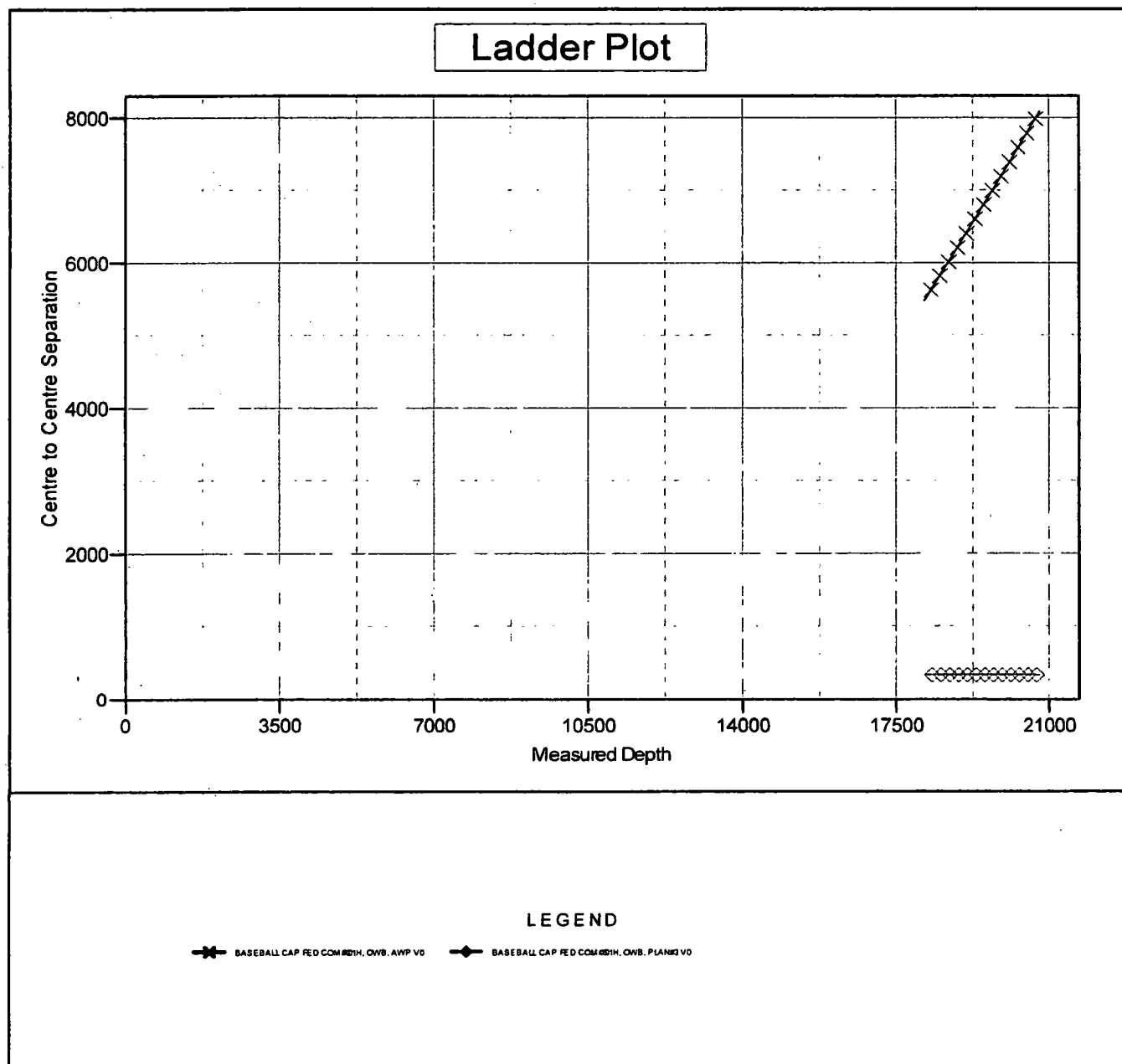
31 July, 2019

Anticollision Report

Company: NORTHERN DELAWARE BASIN
 Project: LEA COUNTY, NM
 Reference Site: BULLDOG
 Site Error: 0.0 usft
 Reference Well: BASEBALL CAP FED COM #701H
 Well Error: 3.0 usft
 Reference Wellbore: OWB
 Reference Design: PLAN #2

Local Co-ordinate Reference: Well BASEBALL CAP FED COM #701H
 TVD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
 MD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM_Users
 Offset TVD Reference: Offset Datum

Reference Depths are relative to KB=30' @ 3407.1usft (SCAN QUEST) Coordinates are relative to: BASEBALL CAP FED COM #701H
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.49°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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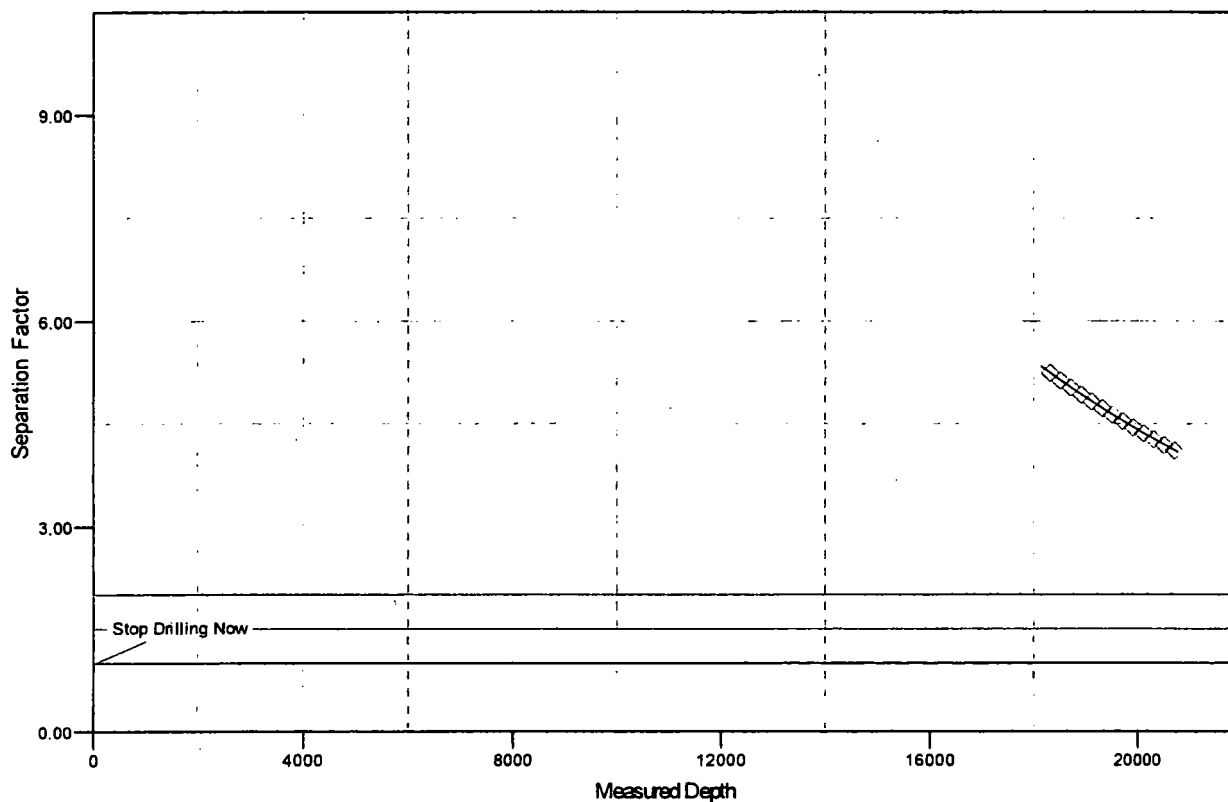
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

◆ BASEBALL CAP FED COM #701H, OWB, AWP VO ◆ BASEBALL CAP FED COM #701H, OWB, PLAN#2 VO

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

BASEBALL CAP FED COM #701H

OWB

Plan: PLAN #2

Standard Survey Report

31 July, 2019

Survey Report

Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: BASEBALL CAP FED COM #701H
Wellbore: OWB
Design: PLAN #2

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Database: EDM_Users

Project	LEA COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site BULLDOG

Site Position: Northing: 398,637.10 usft Latitude: 32° 5' 36.820 N
From: Map Easting: 741,887.40 usft Longitude: 103° 33' 8.116 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.42 °

Well BASEBALL CAP FED COM #701H

Well Position +N/-S 0.0 usft Northing: 431,175.30 usft Latitude: 32° 10' 55.589 N
+E/-W 0.0 usft Easting: 783,096.90 usft Longitude: 103° 25' 5.901 W
Position Uncertainty 3.0 usft Wellhead Elevation: usft Ground Level: 3,377.1 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/19/2019	6.66	60.02	47,723.27206568

Design PLAN #2

Audit Notes:

Version: Phase: PLAN Tie On Depth: 11,900.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.25

Survey Tool Program Date 7/31/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	11,900.0	GYRO-SURF/INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,900.0	23,042.6	PLAN #2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.34	322.07	100.0	0.2	-0.2	0.2	0.34	0.34	0.00
200.0	0.44	320.29	200.0	0.8	-0.8	0.8	0.10	0.10	-1.78
300.0	0.18	286.49	300.0	1.2	-1.3	1.2	0.31	-0.26	-33.80
400.0	0.14	297.79	400.0	1.1	-1.5	1.1	0.05	-0.04	11.30
500.0	0.09	11.26	500.0	1.2	-1.6	1.2	0.14	-0.05	73.47
600.0	0.18	149.35	600.0	1.1	-1.5	1.1	0.25	0.09	138.09
700.0	0.17	198.62	700.0	0.8	-1.4	0.8	0.15	-0.01	49.27
800.0	0.04	52.07	800.0	0.7	-1.5	0.7	0.20	-0.13	-146.55
900.0	0.21	102.32	900.0	0.7	-1.3	0.7	0.19	0.17	50.25

Survey Report

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.23	200.61	1,000.0	0.5	-1.1	0.5	0.33	0.02	98.29
1,100.0	0.14	324.47	1,100.0	0.4	-1.2	0.4	0.33	-0.09	123.86
1,200.0	0.16	127.19	1,200.0	0.4	-1.0	0.4	0.30	0.02	162.72
1,300.0	0.79	260.40	1,300.0	0.2	-1.4	0.2	0.91	0.63	133.21
1,400.0	0.61	253.59	1,400.0	0.0	-2.6	0.0	0.20	-0.18	-6.81
1,500.0	0.86	236.39	1,500.0	-0.5	-3.7	-0.5	0.33	0.25	-17.20
1,600.0	0.96	220.31	1,600.0	-1.7	-4.8	-1.7	0.27	0.10	-16.08
1,700.0	0.95	218.81	1,699.9	-2.9	-5.9	-2.9	0.03	-0.01	-1.50
1,800.0	0.26	183.22	1,799.9	-3.8	-6.7	-3.9	0.75	-0.69	-35.59
1,900.0	0.27	131.10	1,899.9	-4.2	-6.4	-4.2	0.23	0.01	-52.12
2,000.0	0.36	121.92	1,999.9	-4.5	-6.0	-4.5	0.10	0.09	-9.18
2,100.0	0.49	122.06	2,099.9	-4.9	-5.5	-4.9	0.13	0.13	0.14
2,200.0	0.56	123.91	2,199.9	-5.4	-4.7	-5.4	0.07	0.07	1.85
2,300.0	0.54	134.04	2,299.9	-6.0	-4.0	-6.0	0.10	-0.02	10.13
2,400.0	0.54	124.43	2,399.9	-6.7	-3.0	-6.8	0.09	0.00	-9.61
2,500.0	2.31	135.82	2,499.9	-8.7	-1.2	-8.7	1.78	1.77	11.39
2,600.0	3.37	139.65	2,599.7	-12.7	2.3	-12.7	1.08	1.06	3.83
2,700.0	3.71	135.24	2,699.5	-17.3	6.5	-17.3	0.44	0.34	-4.41
2,800.0	5.01	131.89	2,799.2	-22.4	12.1	-22.4	1.32	1.30	-3.35
2,900.0	5.72	132.68	2,898.8	-28.8	19.2	-28.7	0.71	0.71	0.79
3,000.0	5.80	132.85	2,998.3	-35.6	26.6	-35.5	0.08	0.08	0.17
3,100.0	6.46	139.66	3,097.7	-43.0	34.0	-42.9	0.98	0.66	6.81
3,200.0	6.68	140.95	3,197.1	-52.0	41.4	-51.8	0.26	0.22	1.29
3,300.0	6.96	140.39	3,296.3	-61.2	49.0	-61.0	0.29	0.28	-0.56
3,400.0	6.93	140.35	3,395.6	-70.6	56.8	-70.3	0.03	-0.03	-0.04
3,500.0	6.65	137.96	3,494.9	-79.7	64.6	-79.4	0.40	-0.28	-2.39
3,600.0	6.32	135.36	3,594.2	-87.9	72.2	-87.5	0.44	-0.33	-2.60
3,700.0	6.41	135.52	3,693.6	-95.8	80.0	-95.5	0.09	0.09	0.16
3,800.0	6.39	135.95	3,793.0	-103.8	87.7	-103.4	0.05	-0.02	0.43
3,900.0	6.29	136.69	3,892.4	-111.8	95.4	-111.3	0.13	-0.10	0.74
4,000.0	6.32	136.46	3,991.8	-119.8	102.9	-119.4	0.04	0.03	-0.23
4,100.0	6.46	136.70	4,091.2	-127.9	110.6	-127.5	0.14	0.14	0.24
4,200.0	6.49	137.22	4,190.5	-136.2	118.3	-135.7	0.07	0.03	0.52
4,300.0	6.56	137.26	4,289.9	-144.5	126.1	-144.0	0.07	0.07	0.04
4,400.0	5.65	138.21	4,389.3	-152.4	133.3	-151.8	0.92	-0.91	0.95
4,500.0	5.17	135.91	4,488.9	-159.1	139.5	-158.5	0.53	-0.48	-2.30
4,600.0	5.53	134.41	4,588.4	-165.7	145.9	-165.1	0.39	0.36	-1.50
4,700.0	6.44	137.00	4,687.9	-173.1	153.3	-172.4	0.95	0.91	2.59
4,800.0	6.99	140.81	4,787.2	-182.3	160.9	-181.6	0.71	0.55	3.81
4,900.0	7.06	141.16	4,886.4	-191.9	168.6	-191.2	0.08	0.07	0.35
5,000.0	7.14	141.01	4,985.7	-201.6	176.3	-200.8	0.08	0.08	-0.15
5,100.0	7.23	140.61	5,084.9	-211.2	184.3	-210.5	0.10	0.09	-0.40
5,200.0	7.12	138.26	5,184.1	-220.8	192.4	-220.0	0.31	-0.11	-2.35

Survey Report

Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: BASEBALL CAP FED COM #701H
Wellbore: OWB
Design: PLAN #2

Local Co-ordinate Reference: Well BASEBALL CAP FED COM #701H
TVD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
MD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	5.76	139.85	5,283.4	-229.8	200.3	-228.9	1.37	-1.36	1.59
5,400.0	4.99	135.88	5,382.9	-236.7	206.3	-235.8	0.85	-0.77	-3.97
5,500.0	4.88	134.81	5,482.6	-242.8	212.4	-241.9	0.14	-0.11	-1.07
5,600.0	4.76	135.12	5,582.2	-248.6	218.3	-247.7	0.12	-0.12	0.31
5,700.0	4.75	133.80	5,681.9	-254.3	224.2	-253.4	0.11	-0.01	-1.32
5,800.0	4.83	133.40	5,781.5	-260.1	230.2	-259.1	0.09	0.08	-0.40
5,900.0	4.83	132.38	5,881.2	-265.9	236.3	-264.9	0.09	0.00	-1.02
6,000.0	4.84	133.83	5,980.8	-271.7	242.3	-270.7	0.12	0.01	1.45
6,100.0	4.83	133.76	6,080.5	-277.5	248.5	-276.5	0.01	-0.01	-0.07
6,200.0	4.95	133.11	6,180.1	-283.4	254.7	-282.3	0.13	0.12	-0.65
6,300.0	4.79	135.35	6,279.7	-289.3	260.8	-288.2	0.25	-0.16	2.24
6,400.0	4.80	133.99	6,379.4	-295.3	266.8	-294.1	0.11	0.01	-1.36
6,500.0	4.73	133.82	6,479.0	-301.1	272.6	-299.9	0.07	-0.07	-0.17
6,600.0	4.60	132.52	6,578.7	-306.7	278.5	-305.5	0.17	-0.13	-1.30
6,700.0	4.71	134.44	6,678.4	-312.4	284.4	-311.2	0.19	0.11	1.92
6,800.0	5.03	137.76	6,778.0	-318.8	290.3	-317.5	0.43	0.32	3.32
6,900.0	5.10	138.82	6,877.6	-325.4	296.3	-324.1	0.12	0.07	1.06
7,000.0	5.15	138.33	6,977.2	-331.9	302.1	-330.6	0.07	0.05	-0.49
7,100.0	5.11	137.41	7,076.8	-338.6	308.1	-337.2	0.09	-0.04	-0.92
7,200.0	5.25	137.65	7,176.4	-345.3	314.2	-344.0	0.14	0.14	0.24
7,300.0	5.26	138.07	7,276.0	-352.1	320.4	-350.8	0.04	0.01	0.42
7,400.0	4.50	142.06	7,375.6	-358.7	326.0	-357.3	0.83	-0.76	3.99
7,500.0	4.40	141.82	7,475.3	-364.7	330.8	-363.3	0.10	-0.10	-0.24
7,600.0	3.32	145.13	7,575.1	-370.3	335.0	-368.9	1.10	-1.08	3.31
7,700.0	2.39	155.85	7,674.9	-374.4	337.8	-373.0	1.07	-0.93	10.72
7,800.0	2.50	153.36	7,774.8	-378.3	339.8	-376.8	0.15	0.11	-2.49
7,900.0	2.35	160.74	7,874.7	-382.2	341.4	-380.7	0.35	-0.15	7.38
8,000.0	2.25	175.03	7,974.7	-386.1	342.1	-384.7	0.58	-0.10	14.29
8,100.0	2.29	174.69	8,074.6	-390.0	342.5	-388.5	0.04	0.04	-0.34
8,200.0	2.30	173.86	8,174.5	-393.9	343.0	-392.4	0.03	0.01	-0.83
8,300.0	1.85	171.57	8,274.4	-397.5	343.4	-396.1	0.46	-0.45	-2.29
8,400.0	1.30	174.23	8,374.4	-399.9	343.7	-398.5	0.55	-0.55	2.66
8,500.0	1.27	170.15	8,474.4	-402.1	344.0	-400.6	0.10	-0.03	-4.08
8,600.0	1.04	177.12	8,574.4	-404.1	344.3	-402.6	0.27	-0.23	6.97
8,700.0	1.16	173.83	8,674.3	-406.0	344.6	-404.5	0.14	0.12	-3.29
8,800.0	1.17	175.87	8,774.3	-408.0	344.9	-406.5	0.04	0.01	2.04
8,900.0	1.16	175.64	8,874.3	-409.9	345.0	-408.4	0.01	-0.01	-0.23
9,000.0	1.21	181.56	8,974.3	-411.8	345.1	-410.3	0.13	0.05	5.92
9,100.0	1.16	184.39	9,074.3	-413.8	345.0	-412.3	0.08	-0.05	2.83
9,200.0	1.17	184.86	9,174.3	-415.7	344.9	-414.2	0.01	0.01	0.47
9,300.0	1.08	188.26	9,274.2	-417.7	344.7	-416.2	0.11	-0.09	3.40
9,400.0	1.19	191.23	9,374.2	-419.7	344.5	-418.2	0.12	0.11	2.97
9,500.0	1.14	194.85	9,474.2	-421.6	344.1	-420.1	0.09	-0.05	3.62

Survey Report

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	1.13	194.02	9,574.2	-423.4	343.6	-421.9	0.02	-0.01	-0.83
9,700.0	1.16	198.02	9,674.2	-425.3	343.1	-423.9	0.09	0.03	4.00
9,800.0	1.14	199.75	9,774.1	-427.2	342.6	-425.7	0.04	-0.02	1.73
9,900.0	1.14	199.88	9,874.1	-429.1	341.9	-427.6	0.00	0.00	0.13
10,000.0	1.11	197.43	9,974.1	-431.1	341.3	-429.6	0.06	-0.03	-2.45
10,100.0	1.01	214.38	10,074.1	-432.7	340.6	-431.2	0.33	-0.10	16.95
10,200.0	3.75	359.07	10,174.0	-432.1	339.7	-430.7	4.61	2.74	144.69
10,300.0	5.61	2.60	10,273.6	-423.0	340.0	-421.6	1.88	1.86	3.53
10,400.0	5.28	2.70	10,373.2	-413.7	340.3	-412.2	0.33	-0.33	0.10
10,500.0	4.44	0.47	10,472.8	-405.4	340.4	-403.9	0.86	-0.84	-2.23
10,600.0	4.02	358.80	10,572.6	-397.9	340.3	-396.4	0.44	-0.42	-1.67
10,700.0	3.63	356.96	10,672.3	-391.2	340.0	-389.7	0.41	-0.39	-1.84
10,800.0	3.55	356.61	10,772.1	-384.8	339.8	-383.3	0.08	-0.08	-0.35
10,900.0	2.72	357.85	10,871.9	-378.7	339.6	-377.3	0.83	-0.83	1.24
11,000.0	2.25	356.37	10,971.9	-374.6	339.5	-373.2	0.47	-0.47	-1.48
11,100.0	2.10	353.50	11,071.8	-370.8	339.2	-369.4	0.19	-0.15	-2.87
11,200.0	1.88	354.08	11,171.7	-367.4	338.8	-365.9	0.22	-0.22	0.58
11,300.0	1.68	348.62	11,271.7	-364.4	338.2	-362.9	0.26	-0.20	-5.46
11,400.0	1.80	349.63	11,371.6	-361.4	337.6	-359.9	0.12	0.12	1.01
11,500.0	1.59	346.50	11,471.6	-358.4	336.9	-357.0	0.23	-0.21	-3.13
11,600.0	0.93	330.56	11,571.6	-356.4	336.2	-355.0	0.74	-0.66	-15.94
11,700.0	0.75	298.98	11,671.6	-355.4	335.2	-354.0	0.49	-0.18	-31.58
11,800.0	0.74	286.54	11,771.5	-354.8	334.1	-353.4	0.16	-0.01	-12.44
11,900.0	1.11	283.09	11,871.5	-354.3	332.6	-352.9	0.37	0.37	-3.45
TIE ON POINT									
12,000.0	1.11	283.09	11,971.5	-353.9	330.7	-352.5	0.00	0.00	0.00
12,100.0	1.11	283.09	12,071.5	-353.5	328.8	-352.0	0.00	0.00	0.00
12,200.0	1.11	283.09	12,171.5	-353.0	326.9	-351.6	0.00	0.00	0.00
12,300.0	1.11	283.09	12,271.5	-352.6	325.1	-351.2	0.00	0.00	0.00
12,342.7	1.11	283.09	12,314.1	-352.4	324.3	-351.0	0.00	0.00	0.00
Start DLS 10.00 TFO 64.07									
12,400.0	6.29	338.07	12,371.3	-349.4	322.5	-348.0	10.00	9.05	95.94
12,500.0	16.25	343.73	12,469.3	-330.8	316.6	-329.4	10.00	9.95	5.66
12,600.0	26.23	345.13	12,562.4	-295.9	306.9	-294.6	10.00	9.99	1.40
12,700.0	36.23	345.79	12,647.8	-245.8	294.0	-244.5	10.00	9.99	0.66
12,800.0	46.22	346.20	12,722.9	-181.9	278.1	-180.7	10.00	10.00	0.41
12,900.0	56.22	346.49	12,785.4	-106.3	259.7	-105.1	10.00	10.00	0.29
13,000.0	66.22	346.71	12,833.5	-21.1	239.4	-20.1	10.00	10.00	0.23
13,100.0	76.22	346.91	12,865.7	71.0	217.9	71.9	10.00	10.00	0.20
13,200.0	86.22	347.09	12,880.9	167.1	195.7	168.0	10.00	10.00	0.18
13,252.2	91.44	347.18	12,882.0	218.0	184.0	218.8	10.00	10.00	0.17
Start DLS 2.00 TFO 89.88									
13,300.0	91.44	348.14	12,880.8	264.7	173.8	265.4	2.00	0.00	2.00
13,400.0	91.44	350.14	12,878.3	362.8	155.0	363.5	2.00	0.00	2.00

Survey Report

Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: BASEBALL CAP FED COM #701H
Wellbore: OWB
Design: PLAN #2

Local Co-ordinate Reference: Well BASEBALL CAP FED COM #701H
TVD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
MD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	91.45	352.14	12,875.7	461.6	139.6	462.2	2.00	0.00	2.00
13,600.0	91.44	354.14	12,873.2	560.9	127.6	561.4	2.00	0.00	2.00
13,700.0	91.44	356.14	12,870.7	660.5	119.2	661.0	2.00	0.00	2.00
13,800.0	91.44	358.14	12,868.2	760.3	114.2	760.8	2.00	0.00	2.00
13,871.3	91.43	359.56	12,866.4	831.5	112.7	832.0	2.00	-0.01	2.00
Start 9171.6 hold at 13871.3 MD									
13,900.0	91.43	359.56	12,865.7	860.3	112.5	860.7	0.00	0.00	0.00
14,000.0	91.43	359.56	12,863.2	960.2	111.8	960.7	0.00	0.00	0.00
14,100.0	91.43	359.56	12,860.7	1,060.2	111.0	1,060.7	0.00	0.00	0.00
14,200.0	91.43	359.56	12,858.2	1,160.2	110.2	1,160.6	0.00	0.00	0.00
14,300.0	91.43	359.56	12,855.7	1,260.1	109.5	1,260.6	0.00	0.00	0.00
14,400.0	91.43	359.56	12,853.2	1,360.1	108.7	1,360.5	0.00	0.00	0.00
14,500.0	91.43	359.56	12,850.7	1,460.1	108.0	1,460.5	0.00	0.00	0.00
14,600.0	91.43	359.56	12,848.2	1,560.0	107.2	1,560.5	0.00	0.00	0.00
14,700.0	91.43	359.56	12,845.7	1,660.0	106.4	1,660.4	0.00	0.00	0.00
14,800.0	91.43	359.56	12,843.2	1,760.0	105.7	1,760.4	0.00	0.00	0.00
14,900.0	91.43	359.56	12,840.7	1,859.9	104.9	1,860.4	0.00	0.00	0.00
15,000.0	91.43	359.56	12,838.2	1,959.9	104.2	1,960.3	0.00	0.00	0.00
15,100.0	91.43	359.56	12,835.7	2,059.8	103.4	2,060.3	0.00	0.00	0.00
15,200.0	91.43	359.56	12,833.2	2,159.8	102.6	2,160.2	0.00	0.00	0.00
15,300.0	91.43	359.56	12,830.7	2,259.8	101.9	2,260.2	0.00	0.00	0.00
15,400.0	91.43	359.56	12,828.2	2,359.7	101.1	2,360.2	0.00	0.00	0.00
15,500.0	91.43	359.56	12,825.7	2,459.7	100.4	2,460.1	0.00	0.00	0.00
15,600.0	91.43	359.56	12,823.2	2,559.7	99.6	2,560.1	0.00	0.00	0.00
15,700.0	91.43	359.56	12,820.7	2,659.6	98.8	2,660.0	0.00	0.00	0.00
15,800.0	91.43	359.56	12,818.2	2,759.6	98.1	2,760.0	0.00	0.00	0.00
15,900.0	91.43	359.56	12,815.7	2,859.6	97.3	2,860.0	0.00	0.00	0.00
16,000.0	91.43	359.56	12,813.2	2,959.5	96.6	2,959.9	0.00	0.00	0.00
16,100.0	91.43	359.56	12,810.7	3,059.5	95.8	3,059.9	0.00	0.00	0.00
16,200.0	91.43	359.56	12,808.2	3,159.5	95.0	3,159.9	0.00	0.00	0.00
16,300.0	91.43	359.56	12,805.7	3,259.4	94.3	3,259.8	0.00	0.00	0.00
16,400.0	91.43	359.56	12,803.2	3,359.4	93.5	3,359.8	0.00	0.00	0.00
16,500.0	91.43	359.56	12,800.7	3,459.4	92.8	3,459.7	0.00	0.00	0.00
16,600.0	91.43	359.56	12,798.2	3,559.3	92.0	3,559.7	0.00	0.00	0.00
16,700.0	91.43	359.56	12,795.7	3,659.3	91.2	3,659.7	0.00	0.00	0.00
16,800.0	91.43	359.56	12,793.1	3,759.3	90.5	3,759.6	0.00	0.00	0.00
16,900.0	91.43	359.56	12,790.6	3,859.2	89.7	3,859.6	0.00	0.00	0.00
17,000.0	91.43	359.56	12,788.1	3,959.2	89.0	3,959.5	0.00	0.00	0.00
17,100.0	91.43	359.56	12,785.6	4,059.2	88.2	4,059.5	0.00	0.00	0.00
17,200.0	91.43	359.56	12,783.1	4,159.1	87.4	4,159.5	0.00	0.00	0.00
17,300.0	91.43	359.56	12,780.6	4,259.1	86.7	4,259.4	0.00	0.00	0.00
17,400.0	91.43	359.56	12,778.1	4,359.1	85.9	4,359.4	0.00	0.00	0.00
17,500.0	91.43	359.56	12,775.6	4,459.0	85.2	4,459.4	0.00	0.00	0.00
17,600.0	91.43	359.56	12,773.1	4,559.0	84.4	4,559.3	0.00	0.00	0.00

Survey Report

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Project: LEA COUNTY, NM
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Local Co-ordinate Reference: Well BASEBALL CAP FED COM #701H
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,700.0	91.43	359.56	12,770.6	4,659.0	83.6	4,659.3	0.00	0.00	0.00
17,800.0	91.43	359.56	12,768.1	4,758.9	82.9	4,759.2	0.00	0.00	0.00
17,900.0	91.43	359.56	12,765.6	4,858.9	82.1	4,859.2	0.00	0.00	0.00
18,000.0	91.43	359.56	12,763.1	4,958.9	81.3	4,959.2	0.00	0.00	0.00
18,100.0	91.43	359.56	12,760.6	5,058.8	80.6	5,059.1	0.00	0.00	0.00
18,200.0	91.43	359.56	12,758.1	5,158.8	79.8	5,159.1	0.00	0.00	0.00
18,300.0	91.43	359.56	12,755.6	5,258.8	79.1	5,259.0	0.00	0.00	0.00
18,400.0	91.43	359.56	12,753.1	5,358.7	78.3	5,359.0	0.00	0.00	0.00
18,500.0	91.43	359.56	12,750.6	5,458.7	77.5	5,459.0	0.00	0.00	0.00
18,600.0	91.43	359.56	12,748.1	5,558.7	76.8	5,558.9	0.00	0.00	0.00
18,700.0	91.43	359.56	12,745.6	5,658.6	76.0	5,658.9	0.00	0.00	0.00
18,800.0	91.43	359.56	12,743.1	5,758.6	75.3	5,758.9	0.00	0.00	0.00
18,900.0	91.43	359.56	12,740.6	5,858.6	74.5	5,858.8	0.00	0.00	0.00
19,000.0	91.43	359.56	12,738.1	5,958.5	73.7	5,958.8	0.00	0.00	0.00
19,100.0	91.43	359.56	12,735.6	6,058.5	73.0	6,058.7	0.00	0.00	0.00
19,200.0	91.43	359.56	12,733.1	6,158.4	72.2	6,158.7	0.00	0.00	0.00
19,300.0	91.43	359.56	12,730.6	6,258.4	71.5	6,258.7	0.00	0.00	0.00
19,400.0	91.43	359.56	12,728.1	6,358.4	70.7	6,358.6	0.00	0.00	0.00
19,500.0	91.43	359.56	12,725.6	6,458.3	69.9	6,458.6	0.00	0.00	0.00
19,600.0	91.43	359.56	12,723.1	6,558.3	69.2	6,558.5	0.00	0.00	0.00
19,700.0	91.43	359.56	12,720.6	6,658.3	68.4	6,658.5	0.00	0.00	0.00
19,800.0	91.43	359.56	12,718.1	6,758.2	67.7	6,758.5	0.00	0.00	0.00
19,900.0	91.43	359.56	12,715.6	6,858.2	66.9	6,858.4	0.00	0.00	0.00
20,000.0	91.43	359.56	12,713.1	6,958.2	66.1	6,958.4	0.00	0.00	0.00
20,100.0	91.43	359.56	12,710.6	7,058.1	65.4	7,058.4	0.00	0.00	0.00
20,200.0	91.43	359.56	12,708.1	7,158.1	64.6	7,158.3	0.00	0.00	0.00
20,300.0	91.43	359.56	12,705.6	7,258.1	63.9	7,258.3	0.00	0.00	0.00
20,400.0	91.43	359.56	12,703.1	7,358.0	63.1	7,358.2	0.00	0.00	0.00
20,500.0	91.43	359.56	12,700.6	7,458.0	62.3	7,458.2	0.00	0.00	0.00
20,600.0	91.43	359.56	12,698.1	7,558.0	61.6	7,558.2	0.00	0.00	0.00
20,700.0	91.43	359.56	12,695.6	7,657.9	60.8	7,658.1	0.00	0.00	0.00
20,800.0	91.43	359.56	12,693.1	7,757.9	60.1	7,758.1	0.00	0.00	0.00
20,900.0	91.43	359.56	12,690.6	7,857.9	59.3	7,858.0	0.00	0.00	0.00
21,000.0	91.43	359.56	12,688.1	7,957.8	58.5	7,958.0	0.00	0.00	0.00
21,100.0	91.43	359.56	12,685.6	8,057.8	57.8	8,058.0	0.00	0.00	0.00
21,200.0	91.43	359.56	12,683.1	8,157.8	57.0	8,157.9	0.00	0.00	0.00
21,300.0	91.43	359.56	12,680.6	8,257.7	56.3	8,257.9	0.00	0.00	0.00
21,400.0	91.43	359.56	12,678.1	8,357.7	55.5	8,357.9	0.00	0.00	0.00
21,500.0	91.43	359.56	12,675.6	8,457.7	54.7	8,457.8	0.00	0.00	0.00
21,600.0	91.43	359.56	12,673.1	8,557.6	54.0	8,557.8	0.00	0.00	0.00
21,700.0	91.43	359.56	12,670.6	8,657.6	53.2	8,657.7	0.00	0.00	0.00
21,800.0	91.43	359.56	12,668.1	8,757.6	52.5	8,757.7	0.00	0.00	0.00
21,900.0	91.43	359.56	12,665.6	8,857.5	51.7	8,857.7	0.00	0.00	0.00

Survey Report

Company: NORTHERN DELAWARE BASIN
Project: LEA COUNTY, NM
Site: BULLDOG
Well: BASEBALL CAP FED COM #701H
Wellbore: OWB
Design: PLAN #2

Local Co-ordinate Reference: Well BASEBALL CAP FED COM #701H
TVD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
MD Reference: KB=30' @ 3407.1usft (SCAN QUEST)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,000.0	91.43	359.56	12,663.1	8,957.5	50.9	8,957.6	0.00	0.00	0.00
22,100.0	91.43	359.56	12,660.6	9,057.5	50.2	9,057.6	0.00	0.00	0.00
22,200.0	91.43	359.56	12,658.1	9,157.4	49.4	9,157.6	0.00	0.00	0.00
22,300.0	91.43	359.56	12,655.6	9,257.4	48.6	9,257.5	0.00	0.00	0.00
22,400.0	91.43	359.56	12,653.1	9,357.4	47.9	9,357.5	0.00	0.00	0.00
22,500.0	91.43	359.56	12,650.6	9,457.3	47.1	9,457.4	0.00	0.00	0.00
22,600.0	91.43	359.56	12,648.1	9,557.3	46.4	9,557.4	0.00	0.00	0.00
22,700.0	91.43	359.56	12,645.6	9,657.3	45.6	9,657.4	0.00	0.00	0.00
22,800.0	91.43	359.56	12,643.1	9,757.2	44.8	9,757.3	0.00	0.00	0.00
22,900.0	91.43	359.56	12,640.6	9,857.2	44.1	9,857.3	0.00	0.00	0.00
23,000.0	91.43	359.56	12,638.1	9,957.1	43.3	9,957.2	0.00	0.00	0.00
23,042.9	91.43	359.56	12,637.0	10,000.0	43.0	10,000.1	0.00	0.00	0.00
TD at 23042.9									

Design Targets

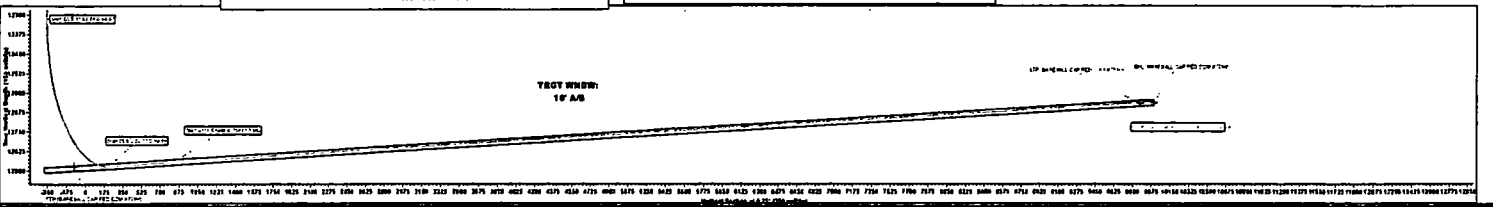
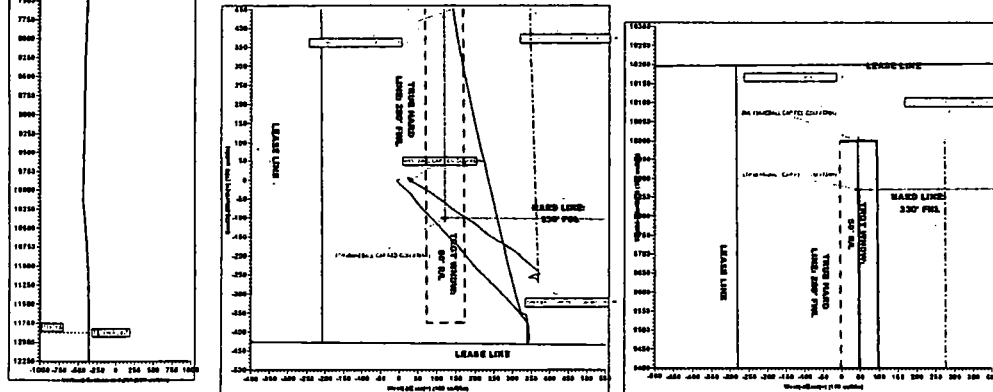
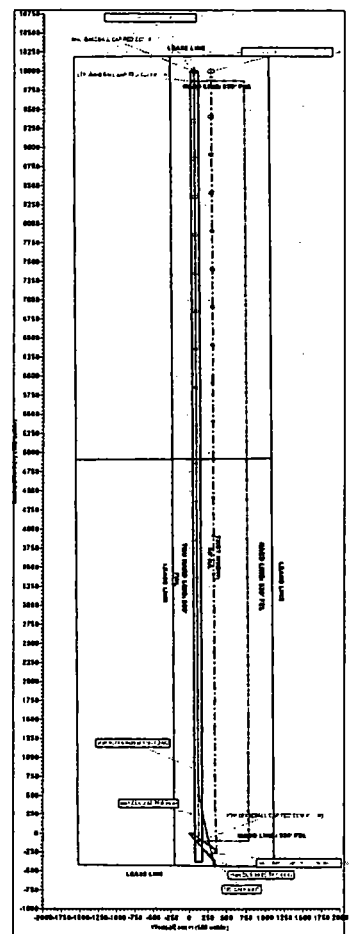
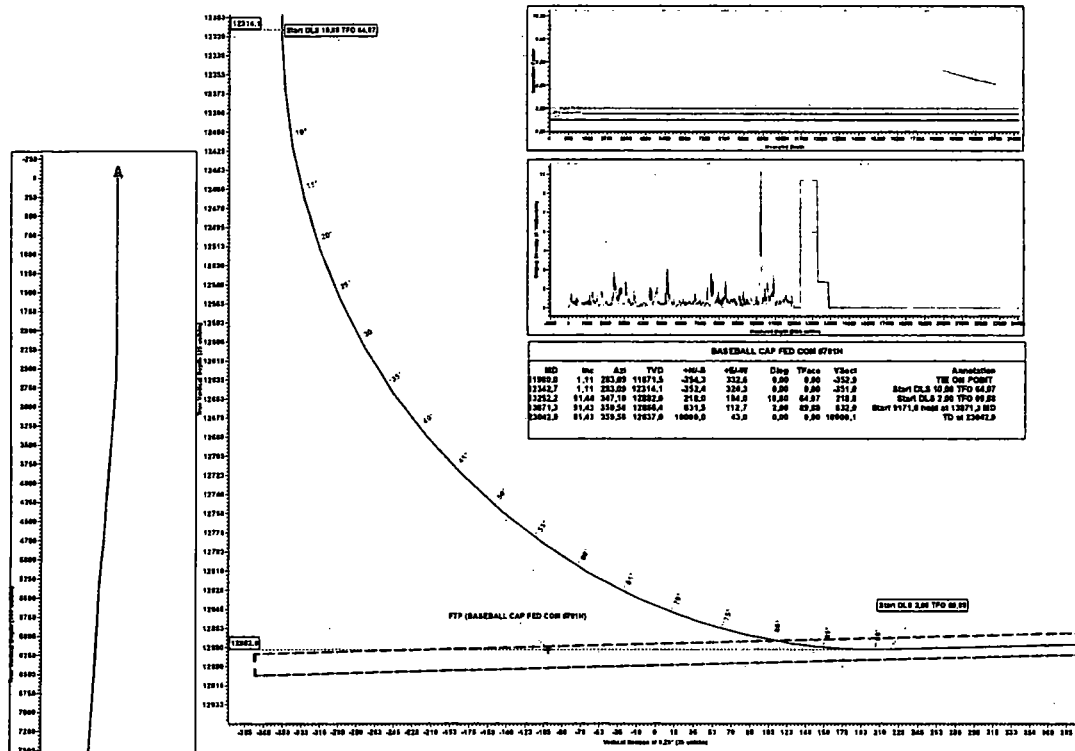
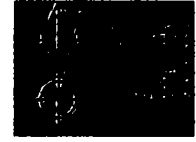
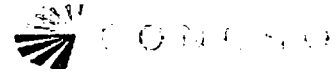
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (BASEBALL CAF	1.43	179.56	12,637.0	10,000.0	43.0	441,175.30	783,139.90	32° 12' 34.537 N	103° 25' 4.410 W
- plan hits target center									
- Rectangle (sides W100.0 H10,379.0 D20.0)									
LTP (BASEBALL CAP	0.00	0.00	12,640.3	9,870.0	44.0	441,045.30	783,140.90	32° 12' 33.250 N	103° 25' 4.411 W
- plan hits target center									
- Point									
FTP (BASEBALL CAF	0.00	0.00	12,882.0	-101.0	120.6	431,074.30	783,217.50	32° 10' 54.579 N	103° 25' 4.507 W
- plan misses target center by 149.1usft at 12979.3usft MD (12824.8 TVD, -39.4 N, 243.7 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,900	11,872	-354	333	TIE ON POINT
12,343	12,314	-352	324	Start DLS 10.00 TFO 64.07
13,252	12,882	218	184	Start DLS 2.00 TFO 89.88
13,871	12,866	832	113	Start 9171.6 hold at 13871.3 MD
23,043	12,637	10,000	43	TD at 23042.9

Checked By: _____ Approved By: _____ Date: _____

DESIGN YACHTS DATA						
Name	PWD	W&B	SEAWE	SEAWING	SEAWIND	Lengthm
SEA (BASEBALL CAP FED CON STYPR)	12837.0	10000.0	65.40	101179.50	79310.00	22° 12' 36.537 N
SEA (BASEBALL CAP FED CON STYPR)	12837.0	10000.0	70.00	611163.00	79310.00	22° 17' 23.550 N
SEA (BASEBALL CAP FED CON STYPR)	12832.0	10000.0	61.50	119.00	79321.50	22° 16' 56.370 N



DISTRICT I
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-45793	Pool Code 98116	Pool Name WC-025 G-09 S253402N; WOLFCAMP
Property Code 319803	Property Name BASEBALL CAP FEDERAL COM	Well Number 701H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3377.1'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	24-S	34-E		430	SOUTH	1110	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	24-S	34-E		200	NORTH	990	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=441234.2 N X=824325.0 E LAT.=32.209719° N LONG.=103.418363° W FEE NMNM123530 SECTION 24 SECTION 25 NMNM123531 NAD 83 NME <u>SURFACE LOCATION</u> Y=431233.9 N X=824282.5 E LAT.=32.182233° N LONG.=103.418776° W	Y=441421.9 N X=822678.3 E 2000' 990' Y=441441.5 N X=825313.2 E LTP 330' FNL & 990' FEL Y=441104.2 N X=824326.0 E LAT.=32.209361° N LONG.=103.418364° W LEASE X-ING LAT.=32.206637° N LONG.=103.418366° W GRID AZ. TO LTP 129°55'40" Y=430816.9 N X=822756.4 E Y=430794.5 N X=825394.4 E 330' FSL & 900' FEL Y=431132.9 N X=824403.1 E LAT.=32.181953° N LONG.=103.418389° W GRID AZ. TO LTP 129°55'40"	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Mayte Reyes</i> 8-5-19 Signature Date Mayte Reyes Printed Name mreyes1@concho.com E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARCH 9, 2018 Date of Survey Signature & Seal of Professional Surveyor <i>Chad L. HARCROW</i> 7/29/19 Certificate No. CHAD HARCROW 17777 W.O. # 19-1403 DRAWN BY: CD
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